

In the Claims:

Please amend claims 34-39, cancel claims 40-49, and add claims 50-58, as set forth below.

1.-33. (canceled)

34. (currently amended) An isolated glycosyltransferase comprising the amino acid sequence SEQ ID NO:8, ~~or a functionally active fragment thereof.~~

35. (currently amended) An isolated glycosyltransferase comprising the amino acid sequence SEQ ID NO:3, ~~or a functionally active fragment thereof.~~

36. (currently amended) An isolated glycosyltransferase comprising the amino acid sequence SEQ ID NO:4, ~~or a functionally active fragment thereof.~~

37. (currently amended) An isolated glycosyltransferase comprising the amino acid sequence SEQ ID NO:5, ~~or a functionally active fragment thereof.~~

38. (currently amended) An isolated glycosyltransferase comprising the amino acid sequence SEQ ID NO:6, ~~or a functionally active fragment thereof.~~

39. (currently amended) A composition comprising an isolated glycosyltransferase conjugated to a solid phase support, wherein the glycosyltransferase is selected from the group consisting of:

a) a glycosyltransferase comprising the amino acid sequence SEQ ID NO:8, ~~or a functionally active fragment thereof;~~

b) a glycosyltransferase comprising the amino acid sequence SEQ ID NO:3, ~~or a functionally active fragment thereof;~~

c) a glycosyltransferase comprising the amino acid sequence SEQ ID NO:4, ~~or a functionally active fragment thereof;~~

d) a glycosyltransferase comprising the amino acid sequence SEQ ID NO:5, ~~or a functionally active fragment thereof~~;

e) a glycosyltransferase comprising the amino acid sequence SEQ ID NO:6, ~~or a functionally active fragment thereof~~.

40.-49. (canceled)

50. (new) A method of adding GalNAc or GlcNAc β 1 \rightarrow 3 to Gal, said method comprising contacting a reaction mixture comprising an activated GalNAc or GlcNAc to an acceptor moiety comprising a Gal residue in the presence of the glycosyltransferase of claim 34.

51. (new) A method of adding GalNAc or GlcNAc β 1 \rightarrow 3 to Gal, said method comprising contacting a reaction mixture comprising an activated GalNAc or GlcNAc to an acceptor moiety comprising a Gal residue in the presence of the glycosyltransferase of claim 35.

52. (new) A method of adding Gal α 1 \rightarrow 4 to Gal, said method comprising contacting a reaction mixture comprising an activated Gal to an acceptor moiety comprising a Gal residue in the presence of the glycosyltransferase of claim 36.

53. (new) A method of adding GalNAc or GlcNAc β 1 \rightarrow 3 to Gal, said method comprising contacting a reaction mixture comprising an activated GalNAc or GlcNAc to an acceptor moiety comprising a Gal residue in the presence of the glycosyltransferase of claim 37.

54. (new) A method of adding Gal β 1 \rightarrow 4 to GlcNAc or Glc, said method comprising contacting a reaction mixture comprising an activated Gal to an acceptor moiety comprising a GlcNAc or Glc residue in the presence of the glycosyltransferase of claim 38.

55. (new) A method of preparing an oligosaccharide having the structure Gal β 1 \rightarrow 4Glc, said method comprising contacting a reaction mixture comprising an activated Gal to an acceptor moiety comprising a Glc residue in the presence of the glycosyltransferase of claim 38.

56. (new) A method of preparing an oligosaccharide having the structure GlcNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4Glc, said method comprising contacting a reaction mixture comprising an activated GlcNAc to an acceptor moiety comprising a Gal β 1 \rightarrow 4Glc residue in the presence of the glycosyltransferase of claim 34.

57. (new) A method of preparing an oligosaccharide having the structure Gal β 1 \rightarrow 4GlcNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4Glc, said method comprising contacting a reaction mixture comprising an activated Gal to an acceptor moiety comprising a GlcNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4Glc residue in the presence of the glycosyltransferase of claim 35.

58. (new) A method of preparing an oligosaccharide having the structure GalNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4GlcNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4Glc, said method comprising contacting a reaction mixture comprising an activated GalNAc to an acceptor moiety comprising a Gal β 1 \rightarrow 4GlcNAc β 1 \rightarrow 3Gal β 1 \rightarrow 4Glc residue in the presence of the glycosyltransferase of claim 37.

REMARKS

Claims 34-39 and 50-58 are pending in the current application. By way of the present Amendment, claims 34-39 are amended, claims 40-49 are canceled, and claims 50-58 are added.

Claims 34-39 have been amended herein and claims 50-58 have been added to more particularly point out and distinctly claim the subject matter which Applicants regard as their invention. Support for these amendments is found throughout the specification as filed as more fully set forth below. Thus, no new matter has been